Amendments to the Claims

1. (currently amended): A method of controlling the transmission timing of a wireless mobile transceiver in a wireless communications system, including:

receiving a burst transmission from the <u>mobile</u> transceiver on a time-slotted channel, the burst transmission including a time slot indication indicating a time slot within which the burst was transmitted;

calculating from the timing of reception of said burst transmission a timing correction value for the <u>mobile</u> transceiver so as to synchronise the transmission timing of said <u>mobile</u> transceiver with a reference timing; and

transmitting said timing correction value to the mobile transceiver.

2. (currently amended): A method as claimed in claim 1, further including, prior to said receiving step:

transmitting to the <u>mobile</u> transceiver a time slot allocation indicating a plurality of slots in the channel; wherein the time slot indication indicates one of said time slots.

- 3. (currently amended): A method as claimed in claim 2 +, wherein said plurality of time slots form a sequential block having a total length greater than the maximum variation in propagation delay in said wireless communications system.
- 4. (currently amended): A method of controlling the transmission timing of a wireless mobile transceiver in a wireless communications system, including:

selecting a time slot in a time-slotted channel;

transmitting from the <u>mobile</u> transceiver a burst transmission in said selected time slot, the transmission including a time slot indication indicating the selected time slot;



receiving at the <u>mobile</u> transceiver a timing correction value derived from the timing of the burst transmission; and

adjusting the timing of a subsequent transmission by the <u>mobile</u> transceiver according to said timing correction value.

- 5. (currently amended): A method a claimed in claim 4, further including: receiving at the <u>mobile</u> transceiver a time slot allocation indicating a plurality of time slots in the channel; wherein the selected time slot is selected from said plurality of time slots.
- 6. (currently amended): A method as claimed in claim <u>5</u>-4, wherein said selected time slot is selected randomly or pseudo-randomly.
- 7. (original): A method of controlling the transmission timing of a wireless transceiver in a wireless communications system, including:

transmitting a burst transmission from the transceiver;

receiving at the transceiver a timing correction value; and

controlling a subsequent transmission by the transceiver according to the timing correction value and according to a timing uncertainty value as a function of time elapsed since reception of the timing correction value.

- 8. (original): A method as claimed in claim 7, wherein the timing uncertainty value is determined by a timing uncertainty rate received by the transceiver.
- 9. (previously presented): A method as claimed in claim 7, wherein if the timing uncertainty value exceeds a predetermined limit, the transceiver is inhibited from transmission in a time slot allocated to that transceiver until a further timing correction value is received.



- 10. (canceled)
- 11. (original): A wireless link signal comprising a data burst including in temporal sequence:

an initial predetermined synchronisation sequence;

- a data field carrying the data content of the burst; and
- a final predetermined synchronisation sequence.
- 12. (original): A wireless link signal comprising a data burst including in temporal sequence:

an first predetermined synchronisation sequence;

- a data field carrying substantially all of the data content of the burst; and a second predetermined synchronisation sequence.
- 13. (previously amended): A signal as claimed in claim 11, wherein the burst includes an initial preamble preceding the first synchronisation sequence.
- 14. (previously amended): A signal as claimed in claim 11, wherein the burst is transmitted in a time-slotted channel.
- 15. (original): A signal as claimed in claim 14, wherein the channel comprises a plurality of slots sequentially separated by a guard band, wherein the length of the guard band is less than the maximum relative timing error between transmissions in adjacent time slots.
 - 16-17. (canceled)
- 18. (original): A method of transmitting data over a wireless communications link, comprising:

detecting a timing reference signal;



receiving a timing slot allocation over the wireless communications link;
and transmitting said data according to said timing reference signal and said
timing slot allocation, in a time-slotted channel having a format including periodic
blocks of constant length each occupied by either one long burst or an integral number of
short bursts of equal length.

19. (withdrawn) A method of controlling the transmission of data over a timedivided multiple access channel of a wireless communications link, comprising:

determining an allocation scheme of said channel to each of a plurality of transceivers, and transmitting said allocation scheme to said transceivers,

whereby said transceivers transmit data is said channel with a format including periodic blocks of constant length each occupied by either one long burst or an integral number of short bursts of equal length.

- 20. (withdrawn) A wireless link signal having a format including periodic blocks of constant length each occupied by either one long burst or an integral number of short bursts of equal length.
- 21. (withdrawn) A method of transmitting data over a wireless communications link, comprising:

transmitting the data in one or more short bursts and/or one or more long bursts, the short bursts comprising 112 modulated data symbols and having a total length of approximately 5 ms, and the long bursts comprising 596 data symbols and having a total length of approximately 20 ms.

22. (withdrawn) A signal comprising a burst transmission having a total length of approximately either 5 or 20 ms and comprising 112 or 596 data symbols respectively.

23-25. (canceled)



- 26. (previously presented): A signal as claimed in claim 12, wherein the burst includes an initial preamble preceding the first synchronisation sequence.
- 27. (previously presented): A signal as claimed in claim 12, wherein the burst is transmitted in a time-slotted channel.
- 28. (previously presented): A signal as claimed in claim 27, wherein the channel comprises a plurality of slots sequentially separated by a guard band, wherein the length of the guard band is less than the maximum relative timing error between transmissions in adjacent time slots.
- 29. (new): A method as claimed in claim 5, wherein said plurality of time slots form a sequential block having a total length greater than the maximum variation in propagation delay in said wireless communications system.

